

ANNUAL REPORT

APRIL 2014 – MARCH 2015



**KRISHI VIGYAN KENDRA
BOLANGIR**



R.E. FARM, LARKIPALLI, BOLANGIR-767002

Orissa University of Agriculture & Technology

Bhubaneswar-751003

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Instructions for Filling the Format

- 1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required**
- 2. Do not merge columns, rows.**
- 3. Please repeat the name of KVK in each table in the column “Name of KVK”**
- 4. Do not fill the non-numerical values in numeric field**
- 5. Do not repeat the unit while reporting data as it is already mentioned in the heading row**
- 6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit**
- 7. Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
- 8. Additional relevant information may be provided at the end of Format by creating heading “Additional Information”**
- 9. Also read the instructions mentioned just below the table**
- 10. Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format**
- 11. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.**
- 12. Gray color cells in summary table need not to be filled.**
- 13. Crop name should be spelled correct and standard English name should be used i.e Cereals, Pulses, Oilseed:- Rice (not use Paddy), Wheat, Barley, Kodo, Kutki, Maize, Jwar, Bajra, Pigeon pea (not use Tur, Arhar, Red gram), Blackgram (not use Urd), Greengram (not use Moong/Moongbean), Chickpea (not use Horse gram, Gram, Chana), Field pea, Horse gram (Kulthi), Lentil, Mustard (not use Rai, Sarsoan), Soybean, Linseed, Groundnut, Sesame (not use Til), Niger (not use Ram Til), Safflower (not use Kusum).
Vegetable :- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Ladies finger).
Fruits :- Mango, Guava, Custard apple, Pear etc.
Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.**

REPORTING PERIOD – April 2014 to March 2015

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2014-15

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	On Farm Testing			
	Proposed OFT	14		
	On Going OFT	3		23
	Technologies assessed (Completed OFT)	11		136
	Technologies refined			
	On farm trials conducted	14		159
2	Frontline demonstrations	16		170
	Proposed Frontline demonstrations	-		-
	On Going Frontline demonstrations	1		10
	FLDs conducted on crops	12		135
	Area under crops (ha.)	28.6		135
	FLD on farm implement and tools	-		-
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1		10
	FLD on Fisheries - Finger lings			
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	2		15
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	1		10
3	Training programmes	No. of Course	Duration (days)	Participants
	Farmers	45	45	1125
	Farm women	17	17	425
	Rural youth	7	14	105
	Extension personnel/ In service	5	5	50
	Vocational trainings	2	11	20
	Sponsored Training	-	-	-
	Total	76	92	1725
		No. of programmes	Participants	
4	Extension Programmes	1185		9600
5	Production of technology inputs etc	Qty	Beneficiaries (nos.)	
	Seed (qt.) Processed Paddy	309	To be lifted by OSSC, Bhubaneswar	
	Planting material produced (nos.)	130080		
6	Livestock	Qty	Beneficiaries (nos.)	
	Livestock strains (Nos)	-	-	
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-	
	Fish (Kg.)	-	-	
	Fingerlings (nos.)	-	-	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	-	-	
	Chicks etc. (nos.)	-	-	

7	Bio Products	Qty	Beneficiaries (nos.)
	Bio Agents -Earth worm (Kg.)	kg	
	Trichoderma (kg.)	-	-
	Bio Fertilizers- Vermi compost, Rhizobium, PSB ,BGA,Mycorriza ,Azotobacter,Azospirillum etc. (Kg.)	20 kg	20
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	-	-
8	Any other significant achievement in the Zone	Nos.	Participants/ beneficiaries
	Award (Best KVK award and scientist and farmer's award)	-	-
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	6	3000 copies
	KVK News letter	3	1500 copies
	SAC Meetings conducted	2	60
	Soil sample tested	393	320
	Water sample tested	-	-
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-
	KVK-KMA (Message and beneficiaries)	135	1000
	Convergence programmes	2	25
	Sponsored programmes	-	-
	KVK Progressive Farmers interaction	2	40
	No. of Technology Week Celebrations	1(5nos. activities)	135
	Attended HRD activities organized by ZPD	5	3
	Attended HRD activities organized by DES	7	7
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc).	7	7
9	Current status of Revolving Funds (Amt. in Rs.)	Closing balance : Rs 3,13,859 (on 31.03.2015)	
10		No. of blocks	No. of villages
	Outreach of KVK in the District	11	71
11		ICAR	SAU Others
	No. of important visitors to KVK (nos.)	1	8 1
12		Working (Yes/No)	No. of Update
	Status of KVK Website	Yes	16
13		Application received	Application disposed
	Status of RTI (nos.)	-	-
14		Query received	Query dissolved
	Citizen Charter (nos.)	21	21
15		Working (Yes/No)	No. of programme viewed
	E-connectivity	No	-
16		Filled	Vacant
	Staff Position	11	5
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	12	
18	Publication received from ICAR /other organization (nos.)	-	
19		Particulars	Organization
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	-	-

GENERAL INFORMATION

1.1. Staff Position (as on 31.03.15)

Summary of Staff position in KVKs on March, 2015

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Bolangir , Odisha	16	1	1	6	4	3	1	6	5	16	11

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Oth)
Bolangir	Programme Coordinator	Vacant SMS(PP) is in charge of P.C.								
Bolangir	Subject Matter Specialist1	Sri Kamalakanta Behera	Agril. Extension	M.Sc(Ag)	Agril. Extension	15600-6000-39000	18320+ 6000	19.04.10	Permanent	Others
Bolangir	Subject Matter Specialist2	Smt. Sasmita Purohit	Home Sc	M.Sc (H.Sc.)	Food & Nutrition	15600-6000-39000	23070+ 6000	11.06.10	Permanent	Others
Bolangir	Subject Matter Specialist3	Smt. Swagatika Srichandan	Horticulture	M.Sc (Ag)	Vegetable Science	15600-6000-39000	18320+ 6000	19.08.11	Permanent	Others
Bolangir	Subject Matter Specialist4	Sri Ashis Kumar Das	Plant Protection	M.Sc(Ag)	Agril. Entomology	15600-6000-39000	23070+ 6000	26.12.11	Permanent	Others
Bolangir	Subject Matter Specialist5	Vacant								
Bolangir	Subject Matter Specialist6	Vacant								
Bolangir	Programme Assistant	Vacant								
Bolangir	Farm Manager	Debasis Panda	-	M.Sc(Ag)	Agril. Entomology	9300-4200-34000	9300+ 4200	03.02.15	Contractual	Others
Bolangir	Computer Programmer	Sri Rabi Narayan Satapathy	Computer	MCA	Information technology	9300-4200-34000	14670+ 4200	13.11.09	Permanent	Others
Bolangir	Accountant / superintendent	Vacant								
Bolangir	Stenographer	Pratima Nayak	Steno/Comp Operator	B.A (Arts)	-	5,200-2400-20200	5430+ 2400	14.02.14	Contractual	ST
Bolangir	Driver	Biswabasi Sarangi	Driver / Mechanic	Under Matric	-	5,200-1900-20200	5420+ 1900	14.02.14	Contractual	Others
Bolangir	Driver	Upendra Mishra	Driver / Mechanic	Matric	-	5200-1900-2400	6350+ 1900	06.05.11	Permanent	Others
Bolangir	Supporting staff	Prafulla Palei	Peon-cum-Watchman	Under Matric	-	4750-1500-6250	5790+ 1300	28.06.14	Permanent	Others
Bolangir	Supporting staff	Krushna Ch Rout	Peon-cum-Watchman	Under Matric		4750-1500-6250	4750+ 1500	01.12.14	Permanent	Others

1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)–

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Bolangir	West central table land zone	14	285	16,48,000	65.5	6,26,240	1,95,112	1.36 ha

1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Bolangir	Uparjhar	2013	Deogaon	32	1207	152
Bolangir	Kaudia	2013	Patnagarh	42	506	90
Bolangir	Saragada	2013	Gudvella	39	634	98
Bolangir	Banabahal	2013	Puintala	20	534	103
Bolangir	Kareldhua	2010	Saintala	35	592	112

1.4. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
Bolangir	Crop diversification
Bolangir	Integrated Nutrient Management practices
Bolangir	Integrated Disease and Pest Management
Bolangir	Quality seeds and seedling production
Bolangir	Income generating activities for rural women/ school dropouts
Bolangir	Value addition to seasonal vegetables/fruits
Bolangir	Proper health management of domestic animals & birds
Bolangir	Weed management & Soil processing
Bolangir	Substitution of ruling varieties with improved/hybrid varieties
Bolangir	Market linkage and production strategies
Bolangir	Recycling of farm wastes through vermicomposting
Bolangir	Farm mechanization/drudgery reduction of farm women
Bolangir	Off season vegetable cultivation
Bolangir	Promotional of nutritional garden for nutritional security
Bolangir	Introduction of suitable varieties with improved packages of practices
Bolangir	Effective use of family labour through need based livelihood option

1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Bolangir	Severe soil erosion in sloppy uplands	Through PRA tools and Discussion with the group of farmer, farm women and rural youth	Kareldhua, Saintala Kaudia, Patnagarh Uparjhar, Deogaon
Bolangir	Soil acidity - Poor knowledge about soil testing and soil health management	Through District soil map and discuss with line department officers (Soil Chemist) and sample soil testing	Banabahal, Puintala
Bolangir	Non availability of waste land management techniques	Group discussion, PRA in sample villages	Saragada, Gudvella Kaudia, Patnagarh
Bolangir	Low and imbalance use of manures and fertilizers in all crops	Farmers meetings, harvest report, sample testing of crop & discuss with line department officers	Kaudia, Patnagarh Uparjhar, Deogaon
Bolangir	Severe crop weed competition in Kharif upland crops	Discuss with farmers, crop observation, sample study and PRA	Kareldhua, Saintala Banabahal, Puintala
Bolangir	Non availability of adequate inputs (seed, fertilizer, pesticides) in time	Discuss with farmers and fertilizer dealers, discuss with district administration and JQCI of agriculture department	Saragada, Gudvella Uparjhar, Deogaon
Bolangir	Lack of storage facility for fruits and vegetables	Sample study, discuss with district civil officer, discuss with fruit & vegetable merchant, discuss with farmers and horticulture officer	Banabahal, Puintala Saragada, Gudvella Kareldhua, Saintala
Bolangir	Poor nutrient status and low water holding capacity of soil	Discuss with soil chemist & soil scientists of Zonal Research Station & ICAR institute and sample testing of soils of different villages	Kareldhua, Saintala Kaudia, Patnagarh Uparjhar, Deogaon
Bolangir	Lack of irrigation facility during Rabi/Summer except Hirakud command area	Discuss with farmers, discuss with irrigation department & district civil administration and personal observation during field visit.	Banabahal, Puintala Saragada, Gudvella Uparjhar, Deogaon
Bolangir	Low availability and adoption of dryland farming technique	Through PRA tools and Discussion with the group of farmer, farm women and rural youth	Saragada, Gudvella Kaudia, Patnagarh Kareldhua, Saintala
Bolangir	Inadequate knowledge about post harvest technology	Discuss with village leaders and old farmers, discuss with line department, sample observation, personal observation during field visit	Banabahal, Puintala Uparjhar, Deogaon Saragada, Gudvella

2. On Farm Testing

Note-

* Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.

*Crop name should be spelled correct and standard English name should be used i.e Chick pea in place of gram/chana , Paddy in place of Rice/chawal , brinjal in place of egg plant/bhata/baigan etc.

*Don't press enter key to navigate among column use arrow or tab key

*don't add space before or after statement within the table cell

2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)		Net Returns (Rs./ha)		Recommendations
										FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	
Bolangir	2014-15	Kharif	Low yield of local banana variety Champa	Assessment on performance of Banana variety G-nane and DC	Assessment	Integrated Nutrient Management	Crop	Irrigated upland	5	-	-	-	-	Continuing
Bolangir	2014-15	Kharif	Low income from Kharif onion var. N 53	Assessment on performance of kharif Onion var.Bhima Sakthi	Assessment	Varietal substitution	Crop	Irrigated medium land	6	282	333	1,29,260	1,59,075	Bhima sakthi can be stored for 5 months as compared to N 53 whose storability is only 2-3 months.
Bolangir	2014-15	Rabi	Low yield of chilli due to excesss flower and fruit drop	Assessment on performance of Zinc sulphate in Chilli	Assessment	Integrated nutrient management	Crop	Irrigated medium land	13	150	182	2,08,100	2,69,750	Zinc helps in amino acid formation thus protein synthesis and hence increase in yield
Bolangir	2014-15	Rabi	Low yield from monocropping	Assessment on horti based Integrated Farming System	Assessment	Integrated farming system	Crop	Irrigated upland and medium land	5	-	-	-	-	Continuing

	2014-15	kharif	Low yield from paddy due to moderate/severe weed infestation in upland condition	Assessment of herbicide Metsulfuron methyl + Chlorimuron ethyl in weed mangt in transplanted paddy	Assessment	Weed management	Crop	Irrigated medium land	13	40.6	45.5	20660	24050	Apply of Metsulfuron methyl+chlorimuron ethyl@20gm/ha
Bolangir	2014-15	Kharif	Low yield of Brinjal due to severe infestation of white fly in Brinjal	Assessment Difenthiurion against management of whitefly in Brinjal	Assessment	Integrated Pest management	Crop	Rainfed upland	13	282.9	323.76	161320	189008	Erection of yellow trap @ 20/ha, & Need based spraying of Difenthiurion 50 WP @ 1 gm/lit at 10 days interval
Bolangir	2014-15	Kharif	Low yield of Paddy due to moderate to severe infestation of Paddy Stem borer	Assessment on insecticide Flubendiamide 20% WP against management of Paddy stem borer	Assessment	Integrated Pest management	Crop	Rainfed upland	13	36.52	42.47	10972	15717	Erection of bird percher @ 20/ ha and need based spraying of Flubendiamide 20% WP @ 1 gm/ lit at 10 days interval
Bolangir	2014-15	Rabi	Low yield of Tomato due to moderate to severe infestation of fruit borer	Assessment of IPM strategy against management of fruit borer in Tomato	Assessment	Integrated Pest management	Crop	Irrigated medium land	6	268.2	312.92	125600	152530	2 rows of African Marigold for every 16 rows of Tomato, erection of pheromone trap @ 20/ha. and need based spraying of DDVP @ 1ml/ lit
Bolangir	2014-15	Rabi	Low yield of Groundnut due to severe weed infestation in upland condition	Assessment of herbicides against weed management in Groundnut	Assessment	Integrated Pest management	Crop	Irrigated upland	13	11.06	13.51	21770	29795	Pre-emergence herbicide, Oxyflourofen @ 200ml/ha at 0-3 DAS, post emergence application of Quizolfop ethyl @ 1000ml/ha at 15-20 DAS , Post emergence application of Imazethapyr @ 750 ml/ha at 15-20 DAS

2.2 Economic Performance

KVK name	OFT Title	Parameters			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)
Bolangir	Assessment on performance of Banana variety G-nane and DC	Yield-q/ha Bunch wt.-kg No.of fingers/kg	continuing													-
Bolangir	Assessment on performance of kharif Onion var.Bhima Sakthi	Yield-q/ha Dia of bulb-cm Bulb wt.- g	282 4.3 78	333 6.5 110	96,340	1,07,325	-	2,25,600	2,66,400	-	1,29,260	1,59,075	-	2.3	2.5	-
Bolangir	Assessment on performance of Zinc sulphate in Chilli	Yield(q) Podlength(cm) Pod girth (cm) Physical appearance of fruit	150 6.7 2.6	182 9 4	91,900	94,250		3,00,000	3,64,000		2,08,100	2,69,750		3.3	3.9	
Bolangir	Assessment on horti based Integrated Farming System		continuing		-	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Assessment of insecticide Difenthiurion against management of whitefly in Brinjal	No. of nymphs/plant Extent of infestation	110 24.3	56 16.6	65000	70000	-	226320	259008	-	161320	189008	-	3.48	3.70	-

Bolangir	Assessment on insecticide Flubendiamide 20% WP against management of Paddy stem borer	Dead hearts / sq. mt., No. Extent of infestation, No.	1.9 20.38	0.73 9.30	29200	31000	-	40172	46717	-	10972	15717	-	1.37	1.50	-
Bolangir	Assessment of IPM strategy against management of fruit borer in Tomato	Extent of plant infestation, % Extent of fruit damage, %	28.46 20.53	17.30 12.76	62000	66500	-	187600	219030	-	125600	152530	-	3.02	3.29	-
Bolangir	Assessment of herbicides against weed management in Groundnut	No. of pods/plant(no.) No. of weed/sq. mt.(no.)	15.4 393.8	22 31.53	20000	31000		49770	60795		29770	29795		1.77	1.96 -	
Bolangir	Assessment of herbicide, Metsulfuron methyl + Chlorimuron ethyl in weed management in transplanted paddy	weed control efficiency Man days required	85 81	81 29	24000	26000	-	44660	50050	-	20660	24050	-	1.8	1.9	

2.3 Information about Home Science OFT:

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Bolangir	2014	Kharif	High drudgery and low efficiency of FW involved in decortications of seed manually	Assessment of Mahua seed decorticator For drudgery reduction of Farmwoman	Assessment	Drudgery reduction	Mahua seed decorticator is used for higher capacity and reduce of drudgery	Wt.14-15kg, made up of mile steel & wooden bar	Enterprise	13	Suitable technology for separating the seeds from the fruits
Bolangir	2014	Kharif	Low germination and high mortality rate of seedling due to in open space	Assessment of low cost poly tunnel for off season nursery raising	Assessment	Small income generation activities	Low cost poly tunnel can cover the bed in ht. of 2 feet from the soil and can partially control the temp. & humidity making the microclimate conducive for germination growth of seedling	Germination of seedling is excellent	Enterprise	13	Performance is good during rainy season as it protects the seedlings from direct sunlight and rain water.
Bolangir	2014-15	Rabi	Low income of farmwomen due to low productivity of local breed	Assessment of performance of poultry breed rainbow rooster	Assessment	Poultry management	Rearing feeding vaccination practices of 15days old rainbow rooster chicks	Multicoloured bird used for both meat and egg purpose.	Enterprise	13	Disposed the male birds after 6 months
Bolangir	2014-15	Rabi	High drudgery & low efficiency of farmwomen involved in threshing paddy manually	Assessment of power operated paddy thresher for drudgery reduction of farmwomen	Assessment	Drudgery reduction	Threshing of paddy by applying power operated force	Wt. 41kg, output 135kg crop /hr.	Enterprise	13	Suitable technology for threshing of paddy by applying power force
Bolangir	2014-15	Rabi	High drudgery & low efficiency due to use of traditional winnowing	Assessment of paddy winnower for drudgery reduction of farmwomen	Assessment	Drudgery reduction	Separation of chaff through paddy winnower	Output 48kg/hr.	Enterprise	13	Work should be done in the opposite direction of blowing wind

2.4 Economic Performance Home Science OFT:

KVK name	OFT Title	Performance Indicator / Parameter																							
		Output kg/hr		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input(Rs)		Incremental income (Rs)		Yield(Kg/ha)		Net Return Rs		Saving in Rs	BC ratio		
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bolangir	Assessment of Mahua seed decorticator For drudgery reduction of F. woman	1.7	9.8	404.93	57.58	127	114		85.78		476														
Bolangir	Assessment of low cost poly tunnel for off season nursery raising											900 nos seedlings	1500 nos seedlings	320	500	900	1500	900 nos seedlings	1500 nos seedlings	580	1000	420	3		
Bolangir	Assessment of performance of poultry breed rainbow rooster											1.75kg/bird 50 nos eggs/yr	3.5kg/bird 180 nos eggs/yr	350	500	687	1585	1.75kg/bird 50 nos eggs/yr	3.5kg/bird 180 nos eggs/yr	337	1085	748	3.17		
Bolangir	Assessment of power operated paddy thresher for drudgery reduction of farmwomen	35	135	18.86	4.47	124	118	-	76.29	-	285														
Bolangir	Assessment of paddy winnower for drudgery reduction of farmwomen	30	48	19.44	14.53	116	128	-	25.2	-	60														

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Bolangir	Hand operated paddy winnower may be developed
Bolangir	Mahua seed decorticator of adjustable height and more capacity may be developed
Bolangir	Egg laying capacity of Rainbow rooster may be enhanced
Bolangir	Marigold transplanting as trap crop in Tomato may be standardized as it is difficult to transplant marigold before transplanting of Tomato
Bolangir	Low cost safer molecule may be recommended for control of DB moth in cauliflower as Spinosad is costly
Bolangir	Development of protective structure in power operated paddy thresher to avoid injury to the eye.
Bolangir	Development of preservation technology so as to have a similar taste in different preservative products in fruits and vegetables

3. Achievements of Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous years

KVK Name	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Bolangir	Crop	Integrated Weed management	Pre emergence application of weedicide Pendimethalin @ 2.5 lit./ ha	Field day, Training to extension functionaries, Diagnostic visit	10	105	60
Bolangir	Crop	Integrated Nutrient Management	Application of Azotobacter, Azospirillum & PSB @ 1 kg each incubated with 75 kg of FYM for 7 days and applied in the soil per hectare	Field day, Training to extension functionaries, FLD Training, publn. of literature	7	80	100
Bolangir	Crop	Integrated Pest management	Rope dragging to dislodge leaf folders, Soil application of Fipronil @ 20 kg/ha., Release of Trichogramma parasite @ 50000/ha three times at 10 days interval, need based spraying of Monocrotophos @ 2ml/lit.	Field day, extension functionaries, media coverage	20	220	15
Bolangir	Crop	Integrated Pest management	Application of 4-5 granules of carbofuran per whorl, Erection of bird percher @ 10/ha, need based application of Profenophos @ 2ml/lit	Field day, extension functionaries, training	40	80	35
Bolangir	Crop	Varietal substitution	Seed rate of hybrid Capsicum @ 300 gm/ha, Transplanting at spacing of 60x30 cm, Soil test based fertilizer, Vermicompost	Field day, Training to extension functionaries, Diagnostic visit	20	85	110
Bolangir	Crop	Varietal substitution	Demonstration of Broccoli in place of Cauliflower(var. Snow ball), Spacing 60x	Field day, Training to extension	120	540	270

			30cm, seed rate 500gm/ ha ,RDF 200-150-75kg/ha	functionaries, Diagnostic visit			
Bolangir	Crop	Integrated Pest management	Spraying of COC 3gm/lit after fruit is harvested , At the time of flowering first spray carbendazim @ 1.5 gm/lit and Mancozeb 3 gm /lit after 15 days to contain Anthracnose disease	Field day, Training to extension functionaries, Diagnostic visit	38	320	120
Bolangir	Crop	Integrated Pest management	Destruction of infested shoots, Erection of Pheromone trap @ 20/ha. Need based spraying of cartap hydrochloride @ 1.5 gm/lit and triazophos @ 2.5 ml/lit alternately at 10 days interval	Field day, Training to extension functionaries, Diagnostic visit	50	400	80
Bolangir	Enterprise	Oyster mushroom cultivation	Cut the straw into 2 inches size ,soak in water for 12 hrs, boiled in water for 30 mins ,drained out excess water, and bed is prepared by using 200 gm spawn inside a polythene of 80*40 cm size	Field day, Training to extension functionaries, Diagnostic visit	60	180	5000 beds
Bolangir	Enterprise	Drudgery reduction	Using sunflower thresher for separating the seeds from the flower after harvesting	Field day, Training to extension functionaries, Diagnostic visit	40	450	800
Bolangir	Crop	Integrated Pest management	Spraying of COC 3gm/lit after fruit is harvested , At the time of flowering first spray carbendazim @ 1.5 gm/lit and Mancozeb 3 gm /lit after 15 days to contain Anthracnose disease	Field day, Training to extension functionaries, Diagnostic visit	32	220	200

Note-

*** Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.**

***Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice , brinjal in place of egg plant etc.**

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3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T ₁)	RP (T ₂)		SC	ST	Others	General	Total
Bolangir	2014-15	Kharif-2014	Varietal substitution	Seed rate @500g/ha, Spacing45 x30 cm, seed treatment with Carboxin+Thiram @3gm/kg of seed , RDF	Marigold	Serakole	0.5	120 q	170 q	41.6	3	-	7		10
Bolangir	2014-15	Kharif-2014	Nutrient management	Bunch feeding @ 500 gm fresh cowdung , 7.5 gm Urea , 7.5 gm Pottasium Sulphate per plant, drip irrigation.Bunch wrapping with polythene.	Banana	G-nane	1 ha	510	540	5.88	2	1	7	-	10
Bolangir	2014-15	Rabi 2014-15	Mulching	50 micron thickness bicolour poly mulch of which upper side is silver colour and lower side being black colour. Silver colour reflects the radiation and reduces the intensity of heat, Durability is 3 yrs.	Tomato	Avinash	0.1 ha	312	397	27.2	2	3	5	-	10
Bolangir	2014-15	Rabi 2014-15	Nutrient management	Application of Nitro benzene @2 ml/l at 2-4 leaf stage at every 15-20 days interval.	Water melon	Sugar baby	1 ha	277	379	36.8	1	2	5	-	8
Bolangir	2014-15	Kharif	Integrated Pest management	Alley formation at 3 mt. interval of Paddy rows , Need based spraying of Buprofezin @ 0.4gm/lit at 10 days interval	paddy	MTU-1010	2	32.8	38.4	19.5	2	2	6		10
Bolangir	2014-15	Kharif	Integrated Pest management	Need based spray of Profenophos @ 2ml/lit against larva and Triazophos @ 2 ml/lit against adult	Arhar	Maruti	2	5.59	8.07	44.36	2	-	8		10

Bolangir	2014-15	Rabi	Integrated Pest management	Seed treatment with Carboxin+Thiram @ 2 gm/lit and spraying of Iprobenfos 48% EC @ 1ml/ lit and Chlorothalonil 75 WP 1.5 gm/lit. at 10 days interval	Onion	Agrifound dark red	1	295.1	327	10.80	2	1	7		10
Bolangir	2014-15	Rabi	Integrated Pest management	Growing of mustard along the field bunds of Cauliflower 15 days before transplanting of Cauliflower, erection of Pheromone trap and need based spraying of Spinosad 45 SC @ 0.4 ml/lit	Cauliflower	Snowball	1	331.6	368.8	11.21	-	2	8		10
Bolangir	2014-15	Kharif	Management practices	Seed rate @20 kg/ha, spacing 60X30 cm, seed dressing with rhizobium @20gm/kg seed and RDF	Arhar	Asha	5	9.4	13.2	40.4	5		10		15
Bolangir	2014-15	Rabi	Management practices	Application of Gypsum @ 2.5 Q/ha, Seed @ 5 kg/ha, Line sowing (60x30 cm), Seed inoculation with Azotobacter culture @ 20 gm/kg seed ,Seed treatment with Vitavax Power @2g/kg, Soil test based recommended dose of fertilizer , need based PP measures	Sunflower	Arunodaya-100(hybrid)	5	11.5	15.7	36.5	3		12		15
Bolangir	2014-15	Rabi	Management practices	Seed rate- 25 kg/ha, spacing 30x10 cm, NPK : 20-40-20kg/ha, Need based PP chemical(Triazophus 2ml/ltr) & irrigation as per need	Blackgram	PU-31	5	5.1	7.8	52	2	1	12		15
Bolangir	2014-15	Rabi	Management practices	Seed rate- 25 kg/ha, spacing 30x10 cm, NPK : 20-40-20kg/ha, Need based PP chemical(Triazophus 2ml/ltr) & irrigation as per need	Green gram	SML-668	5	5.3	8.1	52.8	-		12		12

3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)
Bolangir	Seed rate @500g/ha, Spacing 45 x 30 cm, seed treatment with Carboxin+Thiram @3gm/kg of seed, RDF	Marigold	Yield: q/ha	120	170								
			Flowering season:	Winter	Year round								
			Self life: days	2	6	68,174	1,30,550	1,44,000	3,40,000	75,826	2,09,450	2.1	2.6
			No. of flowers/plant:	59	67								
			Tightness:	Loose	Compact								
Bolangir	Bunch feeding @ 500 gm fresh cowdung, 7.5 gm Urea, 7.5 gm Pottasium Sulphate per plant, drip irrigation. Bunch wrapping with polythene.	Banana	Yield: q/ha	510	540								
			No. of fingers/kg:	7	8.5								
			Weight of bunch: kg	21	25	1,78,350	2,10,000	4,48,800	6,07,500	2,70,450	3,97,500	2.5	2.9
			Physical appearance:	Spots on the peel	No spots on the peel								
Bolangir	50 micron thickness bicolor poly mulch (upper side silver and lower side black). Silver reflects the radiation and reduces the intensity of heat, Durability is 3 yrs.	Tomato	Yield: q/ha	312	397								
			Irrigation interval: days	7	15								
			Weed dry weight: q/ha	18.9	2.32	81,260	95,170	1,87,200	2,38,200	1,05,940	1,26,030	2.3	2.5

Bolangir	Nitrobenzene @ 2ml/l sprayed at 2-4 leaf stage then sprayed at 15-20 days interval.	Watermelon	Yield:q/ha Ave. Fruit weight: kg	277 3.9	379 5.7	66,800	68,100	1,38,500	1,89,500	71,700	1,21,400	2.1	2.8
Bolangir	Alley formation at 3 mt. interval of Paddy rows , Need based spraying of Buprofezin @ 0.4gm/lit at 10 days interval	Paddy	No. of nymphs/hill Extent of infestation	3.47 24.6	1.93 10.6	25000	28000	36091	42284	11091	14284	1.44	1.51
Bolangir	Need based spray of Profenophos @ 2ml/lit against larva and Triazophos @ 2 ml/lit against adult	Arhar	Larvae/ Plant, No. Extent of infestation ,%	3.3 20.9	1.75 12.15	16,000	19,000	33,540	48,420	17,540	29,420	2.09	2.54
Bolangir	S.T. with Carboxin+Thiram @ 2 gm/lit and spraying of Iprobenfos 48% EC @ 1ml/ lit and Chlorothalonil 75 WP 1.5 gm/lit. at 10 days interval	Onion	Bulb Diametre, Cm Extent of infestation, %	4.18 26.7	4.73 14.16	70000	74000	236080	261600	166080	187600	3.37	3.53
Bolangir	Growing of mustard along the field bunds of Cauliflower 15 days before transplanting of Cauliflower, erection of Pheromone trap and need based spraying of Spinosad 45 SC @ 0.4 ml/lit	Cauliflower	No. of larva/ plant Extent of Damage(%)	1.18 29.0	0.75 12.25	65000	70000	265280	295040	200280	225040	4.08	4.21

3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/Technology/Enterprizes	Technology to be Demonstrated as Solution to the Identified Problem	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Bolangir	2014	Kharif	Organic output	Underutilisation of bioproducts	Enterprise	<i>E. Foetida</i>	Preparation of tank by ring method (3 ft diameter & 2 ft ht), substrate combination, procedure of vermicomposting, quality and time of harvesting.	Homestead	5 units(having diameter 3ft.& height 2ft.)	5
Bolangir	2014	Kharif	Duckery management	Low income of farmwomen due to low productivity of local breed (moti)	Enterprise	Khaki Campbell duck	Rearing of 15 days old khaki Campbell ducklings with proper vaccination & feed management	Homestead	300 ducklings	10
Bolangir	2014-15	Rabi	Oyster mushroom cultivation	At the time of low temp. yield of <i>P.sajorcaju</i> is less	Enterprise	<i>Hyspizyous Pulmarious</i>	Cut the straw into 2 inches size ,soak in water for 12 hrs, boiled in water for 30 mins ,drained out excess water, and bed is prepared by using 200 gm spawn inside a polythene of 80*40 cm size	Homestead	300 spawn bottles	10
Bolangir	2014-15	Rabi	Drudgery reduction	Low efficiency of farmwomen involved in sunflower threshing manually	Enterprise	Sunflower thresher	Using sunflower thresher for separating the seeds from the flower after harvesting	Homestead	3nos(1ha)	10

3.5 Economic Performance Home Science FLDs:

KVK name	FLD Title	Performance Indicator / Parameter																						
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input(Rs)		Incremental income(Rs)		Yield(Kg/ha)		Net Return Rs		Saving in Rs		BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	
Bolangir	Demonstration of low cost vermi compost unit											1.8 qtl	8 qtl	1500	2000	2800	10000	1.8 qtl	8 qtl	1300	8000	6700	5	
Bolangir	Demonstration of performance of dual purpose breed khaki Campbell duck											2kg/bird 50 eggs/yr	2.4kg/bird 240eggs/yr	200	400	400	1200	2kg/bird 50 eggs/yr	2.4kg/bird 240eggs/yr	200	800	600	3	
Bolangir	Demonstration of Oyster mushroom cultivation variety hyspizyous pulmarious											1.8 kg/bed	2.3 kg/bed	40	40	144	184	1.8 kg/bed	2.3 kg/bed	104	144	40	4.6	
Bolangir	Demonstration of sunflower thresher for drudgery reduction	1.7	5.12	393.71	106.5	125	112	-	72.94	-	201													

Production per unit : Kg/ 30 beds(i.e. unit) , **Yield (Kg/ha.)** : kg/ 30 beds (i.e. unit)

Production per unit : no.of eggs / 30 birds(i.e. unit), **Yield (Kg/ha.)** : body weight in kg / 30 birds/year (i.e. unit)

Production per unit : Kg/ 30 beds(i.e. unit) , **Yield (Kg/ha.)** : kg/ 30 beds (i.e. unit)

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bolangir	Marigold	Field day	1	40	Demonstration beneficiaries selected from the trainees
Bolangir	Banana	Field day Farmers Training	1 2	30 50	Demonstration beneficiaries selected from the trainees
Bolangir	Tomato	Farmers Training	1	25	Farmers group meeting conducted
Bolangir	watermelon	Farmers Training	1	25	Farmers group meeting conducted
Bolangir	Low cost Vermicompost Unit	Field day Farmers Training	1 1	30 25	Demonstration beneficiaries selected from the trainees
Bolangir	Demonstration of performance of dual purpose breed Khaki Campbell duck	Field day Farmers Training	1 1	30 25	Demonstration beneficiaries selected from the trainees

3.7 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1.	Bolangir	Tomato	Avinash	Syngenta	10	0.1
2.	Bolangir	Sunflower	Arunodaya-100	Arunodaya	15	5

4. Feedback System

4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Bolangir	Cultivation of Serakole variety of Marigold instead of local varieties	Serakole can be cultivated throughout the year(3 crop per year)	Increase in B:C from 2.1 to 2.6 and self life from 2 to 6 days.	Expected adoption in 20 ha area.
Bolangir	Nutritional supplement in Banana to increase finger size. Potassium is highly essential element during finger filling stage	Bunch feeding in Banana @ 500 gm cowdung, 7.5 gm Urea , 7.5 gm Pottasium Sulphate / plant,	Increase of weight of Banana bunch from 21 kg to 25 kg	Expected adoption in 90 ha. of banana orchard
Bolangir	Paddy straw Mushroom cultivation through loose straw	Loose Paddy straw straw instead of neatly cut straw was used in growing Paddy straw mushroom	Yield obtained at par with the method using well cut paddy straw i.e. 1.3 kg/ bed.	Expected adoption by 500 farm families as loose straw is available adequately wrt straw in bundles .
Bolangir	IPM strategy in management of Diamond back moth in Cauliflower	Growing of mustard along the field bunds of Cauliflower 15 days before transplanting of Cauliflower, erection of Pheromone trap and need based spraying of Spinosad 45 SC @ 0.4 ml/lit	Increase B:C from 4.08 to 4.21 and yield increases 11.21%	Expected adoption in 60 ha area
Bolangir	chemical management of Purple blotch disease in Onion	Seed treatment with Carboxin+Thiram @ 2 gm/lit and spraying of Iprobenfos 48% EC @ 1ml/ lit and Chlorothalonil 75 WP 1.5 gm/lit. at 10 days interval	Increase B:C from 3.37 to 3.53 and yield increases 10.80%	Expected adoption in 50 ha area

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Bolangir	Yellow Serakole to be developed that can grow throughout the year.
Bolangir	Easy and simple bunch feeding chemical to be developed
Bolangir	More durable and cost effective poly mulching to be developed
Bolangir	Hand operated paddy winnower should develop
Bolangir	Mahua seed decorticator of adjustable height and more capacity may be developed
Bolangir	Marigold transplanting as trap crop in Tomato may be standardized as it is difficult to transplant marigold before transplanting of Tomato
Bolangir	Low cost safer molecule may be recommended for control of DB moth in cauliflower as Spinosad is costly
Bolangir	Development of protective structure in power operated paddy thresher to avoid injury to the eye.

4. Documentation of the need assessment conducted by the KVK for the training programme

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. Of participants involved
Bolangir	FW	Group meeting of Farmers	11.04.14/Magurbeda	20
Bolangir	FW	Group meeting of Farmers	21.04.14/ Banbahal	43
Bolangir	RY	Group discussion, survey	12.05.14 / Saragada	28
Bolangir	FW	Group discussion	20.05.14/ kaudia	25
Bolangir	FW	Group meeting of Farmers	09.06.14/ Kaudia	30
Bolangir	IS	Meeting with Extension Personnels	21.06.14/ DDA Office	12
Bolangir	FW	Group discussion, survey	7.07.14/ Kaudia	12
Bolangir	FW	Group meeting of Farmers	17.7.14/Saragada	40
Bolangir	FW	Group discussion, survey	09.08.14/ Saragada	25
Bolangir	FW	Group meeting of Farmers	19.8.14/Hardatal	15
Bolangir	FW	Group discussion,	10.09.14/ Saragada	25
Bolangir	FW	Group meeting of Farmers	22.09.14/ Uparjhar	19
Bolangir	IS	Meeting with Extension Personnels	20.10.14/ ADH office	08
Bolangir	FW/RY	PRA	31.10.14/Kaudia	46
Bolangir	FW/RY	PRA	01.11.14/ Uparjhar	34
Bolangir	FW/RY	PRA	13.11.14/Saragada	25
Bolangir	FW/RY	PRA	15.11.14/ Banabahal	29
Bolangir	FW	Group discussion, survey	30.12.14/ Banabahal	10
Bolangir	RY	Group meeting of Farmers	13.01.15/ Kareldhua	33
Bolangir	FW	Group meeting of Farmers	05.01.14/ Uparjhar	18
Bolangir	FW	Group discussion, survey	03.02.14/ Kareldhua	22

Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
4OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
Thematic Areas for Training	
CRP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants
HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

5. TRAINING PROGRAMMES

1. Training programmes should be strictly covered under above mentioned thematic areas only,
2. For category, training type and thematic area, mention code/abbreviations only

Table 5.1. Details of Training programmes conducted by the KVKs

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	CRP	Cotton based intercropping system	1	1	5	-	3	-	-	-	17	-
Bolangir	FW	OFC	CRP	Water and fertilizer management practices in sunflower	1	1	3	-	4	-	-	-	18	-
Bolangir	FW	ONC	AGF	Silvi-culture model for food,fodder and fuel wood	1	1	3	-	4	-	3	-	15	-
Bolangir	FW	OFC	SFM	Integrated management in pulse crop	1	1		-		-		-	25	-
Bolangir	FW	OFC	SFM	Decision making for purchase of complex fertilizer	1	1	5	-	3	-	-	-	17	-
Bolangir	FW	OFC	SFM	Soil as a living concept for crop growth	1	1	3	-	3	-	2	-	17	-
Bolangir	FW	OFC	SFM	Reclamation of acidic soil	1	1	4	-	2	-		-	19	-
Bolangir	FW	OFC	SFM	Soil sampling technique and interpretation of result	1	1	-		3		2		20	
Bolangir	FW	OFC	HOV	Biofertilizer application in Brinjal	1	1	-	-	2	-	4	-	19	-
Bolangir	FW	OFC	HOF	Post harvest handling in Mango	1	1	4	-	5	-	5	-	11	-
Bolangir	FW	OFC	HOV	Sucker treatment and planting technique in Banana	1	1	5	-	5	-	2	-	13	-
Bolangir	FW	OFC	HOF	Control of physiological disorder in Mango	1	1	3	-	15	-	5	-	2	-
Bolangir	RY	ONC	HOO	Round the year Marigold cultivation technique	1	2	-		10		3		2	
Bolangir	FW	OFC	HOV	Bunch feeding in Banana	1	1	4	-	4	-	5	-	12	-
Bolangir	FW	OFC	HOV	Protray seedling raising in Capsicum	1	1	-	-		-	1	-	24	-

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	HOV	Planting technique in Potato	1	1	5	-	-	4	-	-	16	-
Bolangir	FW	OFC	HOV	Mulching in Tomato	1	1	5		4				16	
Bolangir	FW	OFC	HOV	Seedling raising in rabi Onion	1	1	4	-	4	-	-	-	17	-
Bolangir	IS	ONC	HOV	Safe and judicious use of herbicide in horticultural crops	1	1	2	-	2	-	-	-	6	-
Bolangir	FW	OFC	HOV	Weed control in Chilli	1	1	3	-	4	-	-	-	18	-
Bolangir	FW	ON	HOV	Use of plastic as mulching in agriculture	1	1	3	-	4	-		-	18	-
Bolangir	FW	ON	HOV	Harvesting and post harvest management in Cauliflower	1	1	-	-	3	-	2	-	20	-
Bolangir	FW	OFC	HOF	Fertilizer management in Water melon	1	1	-	-	4	-	3	-	-	18
Bolangir	RY	ON	HOV	Seed production technique in Brinjal	1	2	10	-	2	-	3	-		-
Bolangir	FW	OFC	WOE	Package of practice for milk mushroom	1	1	-	-	-	6	-	6	6	15
Bolangir	FW	OFC	WOE	Preparation of value added products from maize	1	1	-	-	-	8	-	5	-	12
Bolangir	FW	OFC	WOE	Household food security by kitchen gardening	1	1	-	-	-	6	-	4	-	15
Bolangir	FW	OFC	WOE	Spawn culture preparation	1	1	-	-	-	6		4		15
Bolangir	FW	ONC	WOE	Picking & postharvest treatment of Mushroom	1	1	-	-	-	6	-	3	-	16
Bolangir	RY	OFC	WOE	Paddy straw mushroom cultivation by compost method	1	1	-	-	-	3	-	1	-	11
Bolangir	FW	OFC	WOE	Packaging and canning of mushroom exercise	1	1	-	-	-	6	-	4	-	15
Bolangir	IS	OFC	WOE	Gender mainstreaming through SHGs	1	1	-	3	-	3	-	1	-	3
Bolangir	FW	ONC	WOE	Cultivation of marigold and income generating remuneration for farmwomen	1	1	-	-	-	6	-	3	-	16

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	WOE	Minimization of nutrient loss in processing	1	1	-	-	-	3	-	3	-	19
Bolangir	FW	OFC	WOE	Package of cultivation practices for oyster mushroom by paddy straw method	1	1	-	-	-	3	-	8	-	14
Bolangir	FW	OFC	WOE	Income generation activities for empowerment of women	1	1	-	-	-	2	-	2	-	21
Bolangir	FW	ONC	WOE	Location specific drudgery reduction technologies	1	1	-	-	-	3	-	2	-	20
Bolangir	FW	OFC	WOE	Feed management in backyard poultry	1	1	-	-	-	2	-	7	-	16
Bolangir	RY	OFC	WOE	Women friendly technologies to empower farmwomen	1	2	-	-	-	2	-		-	13
Bolangir	FW	OFC	WOE	Preparation of value added products from amla	1	1	-	-	-	3	-	3	-	19
Bolangir	FW	OFC	WOE	Administration of mineral mixture in milch animals	1	1	-	-	-	3	-	3	-	19
Bolangir	FW	OFC	WOE	Vaccination schedules & methods of backyard poultry	1	1	-	-	-	1	-	3	--	21
Bolangir	RY	ONC	WOE	Procedure of vermi composting and its application	1	2	-	-	-	1	-	-		14
Bolangir	FW	OFC	WOE	Package of practice for button mushroom	1	1	-	-	-	2	-	4	-	19
Bolangir	FW	OFC	LPM	Major fodder crops for livestock rearing	1	1	-	-	-	6	-	4	-	15
Bolangir	FW	OFC	LPM	Management of poultry diseases	1	1	-	-	-	6	-	5	-	14
Bolangir	FW	ONC	CBD	Marketing strategy of kharif crops	1	1	-	-	4	-	3	-	18	-
Bolangir	FW	OFC	CBD	Importance of line sowing and seed treatment in arhar crop	1	1	5	-	4	-	3	-	13	-
Bolangir	FW	OFC	CBD	Leadership development in farmers club	1	1	3	-	4	-	2	-	6	-

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	CBD	Entrepreneurship development of farmers	1	1	4	-	3	-	3	-	15	-
Bolangir	RY	ONC	CBD	Production and use of organic inputs through vermicomposting and vermiwash	1	1	3	-	4	-		-	8	-
Bolangir	IS	ONC	CBD	Market-led extension	1	1	2	-	2	-		-	6	-
Bolangir	FW	OFC	CBD	Use of ITK in agriculture	1	1		-	3	-	1	-	21	-
Bolangir	RY	ONC	CBD	Marketing strategy for Rabi crops	1	1	3	-	4	-	-	-	18	-
	IS	OFC	CBD	ICT in agriculture and rural development	1	1	-	-	-	2	-		6	2
	FW	CBD	CBD	Management of SHG			-			2		1		22
Bolangir	FW	OFC	PLP	Cultural management of insect pest in oilseed crops	1	1	-	-	4	-	5	-	16	-
Bolangir	FW	OFC	PLP	Management of fungal diseases in cucurbites vegetable	1	1	-	-	1	-	2	-	22	-
Bolangir	RYH	ONC	PLP	Development of para extension worker of plant protection	1	2	-	-	13	-		-	2	-
Bolangir	FW	ONC	PLP	Role and type of intercrop and trap crops in pest management	1	1	-	-		-	5	-	20	-
Bolangir	FW	OFC	PLP	Management of insect pest and diseases in paddy nursery	1	1	3	-	3	-	5	-	14	
Bolangir	FW	OFC	PLP	chemical control of sucking insect pest and fungal diseases in cotton	1	1	2	-	2	-	5	-	14	2
Bolangir	IS	ONC	PLP	IPM in cotton	1	1		-	1	1	1	1	4	2
Bolangir	FW	OFC	PLP	Management of insect pest by natural enemies in vegetables	1	1	1	-	2	-	4	-	18	-
Bolangir	FW	OFC	PLP	Management of insect pest in paddy	1	1	3	-	4	-	3	-	15	-
Bolangir	FW	OFC	PLP	Production of green leaf manure	1	1	-	-		-	1	-	24	-

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	PLP	IPM in solanaceous vegetable	1	1	4	-	2	-	5	-	14	-
Bolangir	RYH	OFC	PLP	Management of defoliater and borer in arhar	1	1	4	-	1	-	3	-	17	-
Bolangir	FW	OFC	PLP	Rodent management in field crops with respect to paddy	1	1	4	-	1	-	4	-	16	
Bolangir	FW	OFC	PLP	IPM in cabbage and cauliflower	1	1	4	-	2	-	2	-	17	-
Bolangir	FW	OFC	PLP	Preventive method for control of insect pest in stored grain	1	1	2	-	6	-	-	-	17	-
Bolangir	FW	OFC	PLP	Management of fungal diseases in onion	1	1	-	-	1	-	2	-	22	-
	FW	OFC	PLP	Methods of pest control in mango inflorescence	1	1	-	-	5		2		18	-
Bolangir	FW	OFC	FIS	Lay out and design of Aquaculture pond	1	1	5	-	3	-	4	-	13	--
Bolangir	FW	OFC	FIS	Plankton management in fish pond	1	1	4	-	5	-	3	-	13	-

Table 5.2. Details of Vocational training programmes for Rural Youth conducted by the KVKs

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
Bolangir	Paddy straw spawn production technique	Enterprise	Income generating activities for Farm women	6	-	-	-	2	-	2	-	6
Bolangir	Techniques of seedling raising	Crop	Cultivation in protected condition		2	-	3	-	3	-	2	-

Table 5.3. Details of training programme conducted for livelihood security in rural areas by the KVKs

Name of KVK	Training title	Self employed after training			Number of persons employed else where
		Type of units	Number of units	Number of persons employed	
Bolangir	Poultry rearing technique	Single	5	5	8
Bolangir	Paddy straw mushroom cultivation in poly house	Group	6	18	11
Bolangir	Drudgery reduction user friendly implements in agriculture	Group	3	8	8
Bolangir	Management of khaki Campbell duck in homestead	single	2	8	2
Bolangir	Marigold cultivation	Group	10	10	12
Bolangir	Seed production technology in paddy	Single	5	21	23

Table 5.4. Sponsored Training Programmes : No Sponsored Training Programmes conducted

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Bolangir																
Bolangir																

Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members : Not conducted

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Bolangir																
Bolangir																

Table 5.6 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bolangir	Importance of line sowing and seed treatment in Pigeon pea	25	4	8	9	11	40500	49500	80, 150 ; 100,22,22
Bolangir	Water and fertilizer management practices in sunflower	25	3	7	11	15	55000	75000	60,126;133, 25,36
Bolangir	Seedling raising in onion	25	2	5	305	360	1,83,000	2,16,000	150,255;150,18,18
Bolangir	Mulching in tomato	25	4	8	287	351	1,43,500	1,75,500	27,50;100,22,22
Bolangir	Weed control in chilli	25	3	7	152	179	2,28,000	2,68,500	20,55;133,18,18
Bolangir	Fertilizer management in watermelon	25	3	6	308	371	2,15,600	2,59,700	16,50;100,20,20
Bolangir	Package of practice for milk mushroom	25	2	6	0.5kg/bed	1.5 kg/bed	50/bed	225/bed	5 villages,35 farmwomen,200,200,350
Bolangir	Preparation of value added products from maize	25	3	8	-	-	500	2500	15.20,-,133,-,400
Bolangir	Household food security by kitchen gardening	25	4	8	142q/ha	172 q/ha	17390	39500	10,20,100,21,127
Bolangir	Spawn culture preparation	25	1	6	-	-	-	-	-, -, -,500
Bolangir	Paddy straw spawn production technique	10	4	9	.5 kg/bed	1.5 kg/bed	50/bed	225/bed	28,21,100,200,350

Bolangir	Picking & postharvest treatment of Mushroom	25	2	7	.5 kg/bed	1.5 kg/bed	50/bed	225/bed	28,21,100,200,350
Bolangir	Paddy straw mushroom cultivation by compost method	15	1	5	.5 kg/bed	1.5 kg/bed	50/bed	225/bed	28,21,100,200,350
Bolangir	Packaging and canning of mushroom exercise	25	2	7	-	-	500	1000	10,250,100
Bolangir	Gender mainstreaming through SHGs	10	3	9	-	-	-	-	200
Bolangir	Major fodder crops for livestock rearing	25	2	8	200 qtl/ha	400 qtl/ha	200000	400000	5,25,300,100,100
Bolangir	Cultivation of marigold ad income generating remuneration for farmwomen	25	3	9	15	45	9000	18000	5, 40 ; 200, 200, 100
Bolangir	Minimization of nutrient loss in processing	25	3	9	-	-	11000	16000	-,40,-200,-,45
Bolangir	Package of cultivation practices for oyster mushroom by paddy straw method	25	4	8	1kg/bed	2 kg/bed	80/bed	160/bed	10000 bags,120,100,100,100
Bolangir	Income generation activities for empowerment of women	25	4	9	-	-	1000	3000	25 SHGs,100,125,-,200
Bolangir	Location specific drudgery reduction technologies	25	2	7	-	-	1500	4000	8 ha,56,250,-,166
Bolangir	Feed management in backyard poultry	25	5	8	1kg/bird	3.5kg/bird	180/bird	420/bird	15,20,-,60,250,133
Bolangir	Women friendly technologies to empower farmwomen	15	4	9	-	-	1000	3000	25 SHGs,100,125,-,200
Bolangir	Preparation of value added products from amla	25	2	6	-	-	700	1400	5 SHGs,34,200,-,100
Bolangir	Administration of mineral mixture in milch animals	25	3	8	4lt/day	4.5lt/day	120	135	5 vill,32,6612.5,,12.5

Bolangir	Vaccination schedules & methods of backyard poultry	25	3	5	-		-	-	30,66
Bolangir	Procedure of vermi composting and its application	15	3	9	-	1 qtl/unit	-	2000/unit	14 unit,14,200,-,100
Bolangir	Package of practice for button mushroom	25	4	8	1kg/bed	2 kg/bed	80/bed	160/bed	10000 bags,120,100,100,100
Bolangir	Management of sucking pests in cotton	25	5	9	13	19	22,000	29,000	18, 45; 80, 46, 32
Bolangir	Management of insect pest in cucurbit vegetables through natural enemy	25	2	6	300	340	50000	70000	40, 74 ; 300, 14, 40
Bolangir	Management of borer complex wrt pod fly in Pigeon pea	25	1	5	5	7	20000	27000	15, 50 ; 400, 40, 35
Bolangir	Management of insect pest in solanaceous vegetables wrt brinjal	25	4	8	280	340	55000	80000	20, 75 ; 100, 22, 45
Bolangir	Stored grain insect pest management	25	2	8	-	-	-	-	20, 75 ; 300, -, -

6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bolangir	Field Day	15	7	140	63	40	17	13	4	To aware the farmers regarding result of the demonstration contributing to yield maximisation	BPH in paddy,Pod fly in Arhar crop.Mgt practices of var.serakole(marigold),Mgt practices of Arhar,low cost vermicompost unit,khaki camp bell,bunch feeding and bunch wrapping in banana	Vegetative stage, Harvesting stage, Interculture stage,Fish netting stage, Marketing stage
Bolangir	Kisan Mela	2	1	254	196	212	88	35	15	Awareness about technological products and activities of mandatory work of KVK	Results of on farm trials and yield from recommended practice	-
Bolangir	Kisan Ghosthi	2	-	-	-	-	-	-	-	-	-	-
Bolangir	Exhibition	3	3	425	212	150	143	45	25	Awareness about technological products	Farmers fair of KVK and other ring partners	-
Bolangir	Film Show	5	5	58	28	44	21	5	2	Awareness regarding technological package	Horticultural crops in protected condition, SRI, pesticide poisoning, cotton cultivation, drip irrigation, water harvesting	Growth stage of different crops
Bolangir	Method Demonstrations	10	12	10	2	15	8	2	-	To show the method of using technological package	Neem oil emulsion preparation, Release tricho-card, Seed dressing with Biofertilizer, placement of seed at	Sowing of seed, Vegetative stage, Pre-land preparation

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
											right depth, line sowing, Erection of yellow trap, Stem application of pesticide, Soil sampling	
Bolangir	Farmers Seminar	-	-	-	-	-	-	-	-			-
Bolangir	Workshop	4	-	-	-	-	-	-	-			
Bolangir	Group meetings	10	3	21	14	23	7	-	-	To sensitize the farmers regarding effective implementation of the FLD , OFT and other critical activities	Before executing FLD and OFT programmes	Before onset of cropping season
Bolangir	Lectures delivered as resource persons	-	48	505	320	395	258	15	5	Capacity building	Agri topics	-
Bolangir	Newspaper coverage	-	6	-	-	-	-	-	-	Information on KVK activities for Mass	Farmers fair, ATMA work monitoring ,field day, Akhitrutiya, SAC meeting	After the organization of the event as mentioned
Bolangir	Radio talks	-	5	Mas s						Technological message for practising farmers	Scientific cultivation practices in groundnut,papaya,cottonempowerment of farm women.value added products from tomato	-
Bolangir	TV talks	-	3	mass	-	-	-	-	-	-	KVK activities,Seedling production,value added products	-
Bolangir	Popular articles	4	2	Mas s	-	-	-	-	-	-	Weed management, pest management	-
Bolangir	Extension Literature	10	6	Mas s	-	-	-	-	-	-	News letter,scientific cultivation of parwal,sunflower	-

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bolangir	Farm advisory Services	-	12	30	-	45	15	5	2	Knowledge and skill development of farmers	Crop technologies	-
Bolangir	Scientific visit to farmers field	50	98	150	21	187	32	7	-	Knowledge and skill development of farmers	Crop technologies	From sowing to harvesting at different stages
Bolangir	Farmers visit to KVK	800	721	220	156	259	86	-	-	To get knowledge and skill	Crop technologies	From sowing to harvesting at different stages
Bolangir	Diagnostic visits	30	75	187	123	165	112	10	3	To solve farmers field problem	Plant protection, Mushroom, Fruit and vegetable cultivation, Pisciculture, Crop husbandry	From sowing to harvesting at different stages
Bolangir	Exposure visits	-	-	-	-	-	-	2	-	To see success points in other farmers field	Plant protection, Mushroom, Fruit and vegetable cultivation	At full bloom and harvest stage
Bolangir	Ex-trainees Sammelan	2	1	28	-	2	-	-	-	Farmers feed back on all the conducted trainings	Major trainings on plant protection, Pisciculture, Horticulture and Home Science discipline	-
Bolangir	Soil health Camp	2	1	30	-	-	-	-	-	Awareness on soil testing and integrate nutrient management	Soil test based nutrient management	-
Bolangir	Animal Health Camp	2	1	30	-	13	-	-	-	Vaccination programme for 285 live stock	Vaccination against livestock diseases	Juvenile stage of livestock
Bolangir	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Farm Science Club conveners meet	-	2	53	-	27	-	-	-	To invigorate the activity of farmers	Empowerment of Farm science Club	-

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
										club		
Bolangir	Self Help Group conveners meetings	-	2	-	32	-	18	-	-	Awareness on non-land based income generating activities	Income generating activities to be taken for Women SHGs	
Bolangir	Mahila Mandals conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Celebration of important days	3	3	61	44	11	14	7	4	Celebration to begin cropping season, empowerment of women in agriculture	World food day,akhitritiya Women in agriculture day	Pre-land preparation stage, Rabi crop season

7. Literature Developed/Published (with full title, author & reference)

7.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Bolangir	28.06.2014	Quarterly	1500	1450

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Bolangir	Leaf let	Judicious use of plant protection chemical	A K Das, K . Behera	500
Bolangir	booklet	Visiting spot of agriculture in bolangir district	A K Das, K . Behera	500
Bolangir	Folder	Scientific cultivation practices pointed gourd crop	S.Srichandan, K.Behera, A.K.Das	500
Bolangir	Folder	Scientific cultivation practices Sunflower crop	K.Behera,A.K.Das,S.Srichandan	500

7.3 Details of Electronic Media Produced : NOT PRODUCED

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bolangir	Seed(Foundation)	Paddy	Naveen	138	3,03,600	To be sold to OSSC, Bhubaneswar	230
Bolangir	Seed(Foundation)	Paddy	Mrunalini	171	3,76,200	To be sold to OSSC, Bhubaneswar	285

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bolangir	Seedling	Marigold	Serakole	21,000	21000	10	0.52
Bolangir	Seedling	Onion	AFLR, Bhima sakthi	1,00,000	15,000	11	0.2
Bolangir	Seedling	Green capsicum	Ujjwal	1240	2480	7	0.04
Bolangir	Seedling	Colour capsicum	Arya, Nikitha	1640	6560	8	0.6
Bolangir	Seedling	Tomato	Avinash, Roja, Sheeja	5100	5100	10	0.51
Bolangir	Seedling	Papaya	Red Lady	1100	16,500	05	0.36

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) * Name of product should follow same pattern and spelled correct

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bolangir	Bio Agents	Vermiculture	20 kg	-	500/kg	20	10 units
Bolangir	Bio Agents	Vermicompost	10 qtl	-	1000/qtl	20	1
Bolangir	Bio Fertilizer	-					
Bolangir	Bio Fertilizer	-					

8.4 Livestock and fisheries production: NIL

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far: No Soil & Water testing Laboratory available at KVK, Bolangir. 393 samples tested outside KVK.

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)
Bolangir	Not available	-	-	393	320	6	NIL	393

9.2 Details of water samples analyzed so far : NIL

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)
		-						

10. Rainwater Harvesting : NOT AVAILABLE

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/STParticipants		
					Male	Female	Total	Male	Female	Total

11. Utilization of Farmers Hostel facilities : NOT AVAILABLE

Accommodation available (No. of beds) :

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)

12. Utilization of Staff Quarters facilities : NOT AVAILABLE

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
	-	-	-	-	-

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bolangir	18.08.14	30	Soil testing should be done prior to conducting trials mainly on micronutrients like Zn,Mo,B,Mg,Cu,Fe
Bolangir			Entrepreneur should be developed in Bolangir district to prepare Bacterial culture for seed dressing of oilseed, pulses and cereals
Bolangir			Programme should be taken as farm mechanisation sector
Bolangir			For celebration of farmers fair financial help can be taken from NABARD, ATMA
Bolangir			Common OFT programmes should be given priority
Bolangir	5.12.14	30	No. of animal health camps should be 10 per year
Bolangir			Intervention on cultivation of Chick pea
Bolangir			Intervention on cultivation paddy var. Sahabhagi
Bolangir			Soil testing should be done prior to conducting trials mainly on micronutrients like Zn, Mo, B
Bolangir			Programme on promotion of Hyb capsicum may be taken
Bolangir			Programme on Low cost nutrient diet for livestock may be taken
Bolangir			Fodder cultivation may be promoted
			Programme on Cotton based intercropping module may be taken

14. Status of Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages sent	No. of beneficiary		Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
Bolangir	135	1000	50	Pacific Technology, Nagpur and Farmers Portal	Integrated disease & pest management in major crops, , Mushroom cultivation, Production technology on Cereals, Pulses, Oilseeds; Nutrient management in Vegetables and Fruits, Weed management, Weather forecasting based activity, Management of livestock and Poultry, Market information on Prices

15. Status of Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
Bolangir	NABARD	Central	10,000	Farmer's fair	Adopted village Banbahal	Arrangement of meeting
Bolangir	ATMA	Central	50,000	Farmer-Scientist interaction/farmers fair	Adopted village Banbahal(farmer's from different adopted village)	On topic of novel pesticides for safe and judicious use/Exhibition purpose of farmers fair.

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bolangir	31149194881	462476	313859	At hand(as on 31.03.2015)

17. Awards & Recognitions : No award for KVK, Bolangir

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received

18. Details of KVK Agro-technological Park .

Not established in the KVK (However a small crop cafeteria has been established

KVK, Bolangir is functioning in a dilapidated building , instructional farm has no boundary and subject to frequent trespass by man and animal thereby restricting development of technological park.

a) Have you prepared layout plan, where sent?

S .No.	Name of KVK	Technology park proposal developed(yes/no)	If yes, where sent ? (ZPD/DES/any other, pl. sp.)

b) Details about Technology Park : Not established

Name of KVK	Name of Component of Park	Detail Information (If established)
Bolangir	Crop Cafeteria	
Bolangir	Technology Desk	
Bolangir	Visitors Gallery	
Bolangir	Technology Exhibition	
Bolangir	Technology Gate-Valve	

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Integrated pest management	3
2	Integrated nutrient management	3
3	Intercropping	3

19. Farm Innovators- list of 10 Farm Innovators from the District

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Bolangir	Satyabrata Thati	Floriculture	Village:Banbahal, Bolangir- 8658942615
2	Bolangir	Parasar Padhan	Growing of Banana G-nane	Village:Tamiya, Patnagarh-
3	Bolangir	Mukunda Badhei	Onion storage structure	Village:Magurbeda, Loisingha-
4	Bolangir	Manoj Meher	Cotton intercropping with Maize	Village:Kaudia, Patnagarh- 9937731046
5	Bolangir	Roopakanti Baghar	Brooding of 1 day old chicks	Village:Banabahal,Puintal
6	Bolangir	Hemakanti Meher	Production of Oyster mushroom by using Loose straw	Village:Kaudia, Patnagarh- 8018035133
7	Bolangir	Angad Biswal	Integrated Farming System	Village:Dhaunradadar, Loisingha- 9668736670
8	Bolangir	Jayaram Meher	Broccoli cultivation	Village:Kaudia,Patnagarh, -9937980234
9	Bolangir	Pradumna Teji	Relay cropping of Pointedgourd in single trellis system	Village:Magurbeda, Loisingha- 9937623894
10	Bolangir	Khirodra Biswal	Protected cultivation	Village:Dhaunradadarr,Loisingha 8260105499

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers participated
Bolangir	18.08.14	15
Bolangir	5.12.14	25

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Bolangir	06	07	11	66

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

22. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize, if applicable.
Not applicable

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1.	KVK, Sonepur	Knowledge, Manpower	Development of para-extension workers
2.	KVK, Kalahandi	Knowledge, Manpower	Qualitative development of literature and methodology on effective capacity building of Rural Youth
3	KVK, Nuapada	Knowledge, Manpower	Qualitative development of literature and methodology on effective capacity building of Rural Youth

24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Bolangir	Dr.P.K.Banarjee,	18.8.14	-	OUAT, Bhubaneswar	-	To chair the 5 th SAC meeting of KVK
Bolangir	Dr. (Mrs) Madhumita Das(Sr. Scientist,)	18.08.14	Directorate of Water Research, formerly WTCER (ICAR) Bhubaneswar	-	-	Participation in 5 th SAC as ICAR representative
Bolangir	Dr.T.Athare (Scientist,)	23.09.14	Zonal project Director,Jabalpur	-		Review KVK activities
Bolangir	Dr.S.Sahoo, (DDE,)	28.11.14	-	OUAT, Bhubaneswar	-	To chair the gendersensitization workshop
Bolangir	Dr.(Mrs)M. Behera, (DDE)	28.11.14	-	OUAT, Bhubaneswar	-	To Participate in the gendersensitization workshop as Chairwoman
Bolangir	Dr.Manoranjan Kar (Hon'ble VC, OUAT)	5.12.14	-	OUAT, Bhubaneswar	-	To chair the 6 th SAC meeting
Bolangir	Dr S.S.Nanda, (DEE, OUAT)	5.12.14	-	OUAT, Bhubaneswar	-	To participate in the 6 th SAC meeting
Bolangir	Dr. S. K.Rout, (DPME, OUAT)	5.12.14	-	OUAT, Bhubaneswar	-	Monitoring KVK activities

Bolangir	Dr.R.Das (DSW, OUAT)	5.12.14	-	OUAT, Bhubaneswar	-	Guest in 6 th SAC meeting
Bolangir	Dr.M.Muthukumar, (Collector & DM, Bolangir)	12.12.14	-	-	District Magistrate	To participate in the Farmers fair of KVK as Chief Guest
Bolangir	Dr.S.Sahoo (DDE, OUAT)	12.12.14	-	OUAT, Bhubaneswar	-	To participate in the farmers fair of KVK s chairman
Bolangir	Dr.R.Pattanaik, (Dean, College of Agriculture, Bhawanipatna, OUAT)	12.12.14	-	OUAT, Bhubaneswar	-	To Chair the farmers – Scientist interaction during Farmers fair

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Kvkbolangirzpdvii.org	April-2011	16	270

26. E-CONNECTIVITY : Not available

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No of lectors organized by KVK	Brief achievements	Remarks

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1	Bolangir	No RTI application received	-	-

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks
1	Bolangir	25	25	No queries received in written format , however 25 cases wrt crop activities have been disposed

29. Attended HRD Programmes organized by ZPD :

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bolangir	Ashis ku Das	Programme Coordinator	1	
Bolangir	Kamalakanta Behera	SMS(Ag.Extn)	2	
Bolangir	Rabi narayana Satpathy	PA(Computer)	1	
	Total			-

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Bolangir	3	3

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bolangir	A. K. Das	Programme Coordinator	3	ZREAC meeting,KVK Zonal workshop ,symposium on ISA
Bolangir	K. K. Behera	SMS(Ag. Extension)	1	Training on emerging trend in agriculture production system and creative thinking for better TOT
Bolangir	S. Srichandan	SMS(Horticulture)	1	Appropriateness of different farm technologies of horticulture sector
Bolangir	S. Purohit	SMS(Home Science)	1	Recent advances in Home science for rural development
Bolangir	R.Satpathy	PA(Computer)	1	Computer related work in KVK System
Bolangir	P.Naik	Steno	1	Computer related work in KVK System

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Bolangir	6	6

31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks
Bolangir	A.K. Das	Programme coordinator	1	Orientation Programmes/ On IPM & Plant Nutrition
Bolangir	K. K. Behera	SMS(Ag. Extension)	1	Training on emerging trend in agriculture production system and creative thinking for better TOT
Bolangir	S.Purohit	SMS(Home science)	1	Recent advances in Home science for rural development
Bolangir	S.Srichandan	SMS(Horticulture)	1	Appropriateness of different farm technologies of horticulture sector
Bolangir	R.Satpathy	PA(Computer)	1	Computer related work in KVK System
Bolangir	P.Naik	Steno-computer operator	1	Computer related work in KVK System

Name of KVK	Total Number of staff Attended HRD Programmes organized by ZPD (nos)	Total Number of Programmes attended (Nos)
Bolangir	1	1

32. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)

No such cases observed

Name of KVK	Alert observed	Particulars	Reported to organization
Bolangir			

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bolangir	Seed treatment Campaign	1	25	Seed treatment of Pulse seeds
Bolangir	Awareness of weed management for vegetables	1	25	Weed management for vegetables like brinjal, tomato, cucumber, cauliflower, cabbage.
Bolangir	Development of farm women agripreneurs through SHG	1	30	Strengthening of activity of women self help group
Bolangir	Future prospect of High tech agriculture in Bolangir district	1	30	Awareness on High-tech Agriculture
Bolangir	Novel pesticides for safe and judicious use	1	25	Judicious use of pesticides in Agriculture

34. INTERVENTIONS ON DROUGHT MITIGATION : *Drought condition did not prevail due to normal monsoon*

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants

Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers

Seed distribution in drought hit states

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				

Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers

(e) Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers

(f) Verms Produced

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers

(g) Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers

(h) Awareness campaign

Name of KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers

35. Proposal of NICRA :

NOT COVERED UNDER NICRA

1. Technologies to be Demonstrated

Name of Technology	Name of Crop	Area (ha.)	Yield	% change in Yield	No. of farmers benefitted

2. Proposed Extension Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

3. Proposed Training Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit

7. Feedback of Farmers for future improvement, if any.

- # Provision of training hall and hostel for effective capacity building.
- # Provision of standard lunch at Rs 40/- per day per farmer is too meager for the purpose, which may be increased.
- # Vocational training on Vaccination of poultry birds may be included
- # Increased productivity of fish ponds with seasonal water (water does not hold for 12 months) through scientific management .
- # Dehydration technique for mushroom should be taught to farmers at KVK campus.
- # More no. of field visits for mitigating field and non-land based agrarian problems.

36. Proposed works under NAIP (in NAIP monitoring format)

Not covered under NAIP Project.

37. Case study / Success Story to be developed – Two best only in the following format

SUCCESS STORY – 1

Name of the KVK : Bolangir

Title –Khaki Campbell duck – A good source of income for farmwomen.

Introduction – Smt. Sushila Thati , W/o Sri Parameswar Thati a middle aged farmwoman of village Banabahal in Puintala Block of Bolangir District rearing 20 nos of local duck (Moti) in her farming system since 3 years back. Other major components of her farming system are cultivation of paddy, vegetable along with paddy straw mushroom and dhingiri Mushroom cultivation. But she was getting less profit from duckery unit.

KVK Intervention- By intervention of KVK , the following practices / technology was achieved :

- Floor space area will be 2 to 2.5sq. ft. Per bird.
- At least 5 ft height in case of roofed house & 10-12 ft height in thatched roof house
- Walls should be constructed with mud or low cost brick
- Two windows covered with wire net in opposite direction for cross ventilation
- Floor to be covered with 1 cm thickness sand
- Day old ducklings are to be kept in the house where floor is to be covered gunny bags which are to be changed for drying in every alternate day during the brooding period.

Vaccine(duck virus hepatitis,) after 4 weeks to protect viral diseases,vaccine cholera at 10 week to protect bacterial disease,plague vaccine after 3-4 month to plague diseases

- Chick mass added with equal af water should be provided in the plastic tray (1 tray for 20 birds)
- An electric ball (200 watt) to be hang at least 2 feet height from the floor to provide the necessary temperature during the brooding period. Chick guard are to be used to avoid moving away of ducklings from the source of light.
- A reflector may be fixed behind the ball, so that the heat and light will be spread over the area uniformly.

OUT PUT –. she has 100 nos. of khaki campbell duck in her unit. She gives vaccine to the duck in proper time with the contacts of local LI.

No of duck	Yield Body wt./no. eggs	Cost of cultivation	Gross Return	Net Profit
100	2.4kg/240nos	40000	120000	80000

OUT COME – Felicitated by Hon'ble collector of Bolangir during Farmers, Fair of KVK, Bolangir.
Purchased a groundnut decorticator and mahua seed decorticator

IMPACT – 156 farmwomen from Deogaon, Agalpur, Saintala block adopt this variety of breed .

SUCCESS STORY-2

Name of the KVK : Bolangir

TITLE : Crop diversification from paddy to Tissue culture Banana

Introduction : Manoj Meher a young farmer of Kaudia village having 2.5 ha of land where he cultivated Paddy/vegetables in 1.7 ha in Kharif and Green gram/Black gram in 0.8 ha in Rabi.His investment was Rs. 1,73,000/- per annum with net profit of Rs 3,19,200 /- per annum.

KVK intervention: By intervention of KVK , the following practices / technology was achieved :
 Tissue culture Banana var. G –nane with Drip irrigation in 1 ha.
 Weeding with Glyphosate @ 8ml/l Denavalling,
 Foliar application of Nitrobenzene (2 ml/l),
 Bunch feeding with potassium sulphate (7.5 gm)+urea(7.5 gm)+fresh cowdung (500 gm) Bunch wrapping with perforated polythene and Paper.

Output : Economics after KVK intervention

Season	Crop/Enterprise	Area (ha)	Yield	Cost of Cultivation (Rs)	Gross Income (Rs)	Profit (Rs)
Kharif	Banana	1.0	675	2,10,000	5,40,000	3,30,000
	Paddy	1.0	33	22,000	33,000	11,000
	Combination of vegetables	0.5	150	32,000	1,05,000	73,000
Rabi	Combination of Vegetables	2.0	490	1,15,000	3,43,000	2,28,000
	Green gram	0.4	2.8	4,000	11,200	7,200
				3,83,000	10,32,200	6,49,200

Outcome : Felicitated by KVK and Horticulture department


He purchased a tractor

Impact :




Acreage of Banana cultivation increased from 900 ha. in 2009-10 to 1400 ha in 2014-15

Blocks : Patnagarh, Deogaon, Agalpur

38. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –

Title of OFT	Problem	Related photograph
Assessment on varietal performance of kharif onion	Low income from Onion var. N-53	
Assessment on performance of zinc sulphate in Chilli	Low yield of chilli due to excess flower and fruit drop	

		
Assessment of Paddy winnower for drudgery reduction of Farmwomen	High drudgery & low efficiency due to use of traditional winnowing	
Assessment of Low cost polytunnel for off season nursery raising	Low germination and high mortality rate of seedling in open space	
Assessment of Mahua seed decorticator for drudgery reduction of farmwomen	High drudgery and low efficiency of farmwomen when process manually with the help of a stone	

Assessment of performance of poultry breed rainbow rooster	Low income of farmwomen due to low productivity of local breed		
Assessment of Power operated Paddy thresher for drudgery reduction of farmwomen	High drudgery and low efficiency of farmwomen involved in threshing paddy manually		
Assessment of Keeping quality of Oyster mushroom by dehydration	Low income of farm women due to distress sale of Oyster mushroom		

**Programme Coordinator
KVK, Bolangir(ODISHA)**